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METHODS AND KIT FOR HYBRIDIZATION ANALYSIS USING PEPTIDE NUCLEIC
ACID PROBES

Abstract of the Disclosure

5 A method composition and apparatus for the hybridization and separation of molecules
having a desired target sequence in a sample by contacting a sample of single stranded nucleic
acids with a detectable PNA probe having a sequence complementary to the target sequence so
that the target sequence, if present, will hybridize with the detectable probe to form a detectable
duplex, and then separating the duplex in a denaturing medium from unbound sample
components by electrophoresis. The invention also relates to methods compositions and
10 apparatus for the hybridization and separation of molecules having a desired target sequence in a
mixed sample of single stranded nucleic acids and their complementary strands by contacting the
sample with a detectable PNA probe.

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